

## Message Text

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FM SECSTATE WASHDC

TO AMEMBASSY MOSCOW

UNCLAS STATE 295725

E.O. 11652: N/A

TAGS: TGEN, US, UR

SUBJECT: COMPUTER APPLICATIONS: LARGE SYSTEMS:

TRANSPORTATION (01.010204)

1. AUFENKAMP REQUESTS THAT FOLLOWING LETTER BE TRANSMITTED  
TO BEZRUKOV WIT; COPIES TO RAMEYEV AND ZARODOV.

2. 01.010204 - DECEMBER 2, 1976

MR. V. BEZRUKOV

DEPUTY CHIEF

MAIN COMPUTER CENTER

U.S.S.R. GOSPLAN

KIROV STREET 45, MOSCOW

DEAR MR. BEZRUKOV:

IN ACCORDANCE WITH THE MEMORANDUM WE SIGNED IN OCTOBER, I  
AM SENDING THE PROPOSALS OF THE U.S. SIDE FOR CONTINUING  
WORK IN ECONOMIC MATHEMATICAL MODELING OF COMPLEX TRANS-  
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PORTATION SYSTEMS. TWO PROPOSED PROJECTS ARE DESCRIBED

BRIEFLY. BOTH PROJECTS WERE DISCUSSED BY DR. HUNTER AND DR. KOZIN DURING THE MEETINGS IN MOSCOW IN APRIL 1976.

1. APPLICATIONS OF PLANNING MODELS TO SIMULATE THE DEVELOPMENT OF AN ECONOMIC REGION AND ITS TRANSPORTATION NETWORK. IT IS PROPOSED THAT PLANNING MODELS DEVELOPED IN THE U.S. AND U.S.S.R. TO SIMULATE THE DEVELOPMENT OF AN ECONOMIC REGION AND ITS TRANSPORTATION NETWORK BE APPLIED TO REGIONS IN ALASKA AND SIBERIA FOR THE PURPOSE OF EVALUATING AND COMPARING THE STRENGTHS AND WEAKNESSES OF VARIOUS ANALYTICAL APPROACHES. THE MODELS DESCRIBED IN THE BROOKINGS TRANSPORT RESEARCH PROGRAM STUDIES ARE BEING UPDATED AND APPLIED TO ALASKA; THEY COULD ALSO BE APPLIED TO BOTH REGIONS. EFFORTS ARE ALREADY UNDERWAY IN THE U.S. TO COLLECT ECONOMIC AND TRANSPORT DATA FOR ALASKA AND ON ADAPTING THE EARLIER TRANSPORT MODELS TO ALASKA.

2. USE OF A PROGRAMMING MODEL TO IMPROVE THE ASSIGNMENT OF TRANSPORT CAPACITY IN DEALING WITH SEASONAL PEAK-LOAD TRAFFIC DEMANDS. THE PROPOSED RESEARCH WILL TEST ALTERNATIVE MODELS FOR OPTIMIZING THE ASSIGNMENT OF RAILROAD ROLLING STOCK, SHIPS AND BARGES, OR TRUCKS TO THE MOVEMENTS OF PARTICULAR COMMODITIES, USING ACTUAL DATA FOR SOME RECENT PERIOD, IN ORDER TO MEASURE THE POTENTIAL FOR RAISING MANAGEMENT EFFECTIVENESS. THE STARTING POINT

WOULD BE THE AMERICAN RAILROADS' MODEL FOR ASSIGNING EMPTY FREIGHT CARS. MONTHLY AND QUARTERLY DATA FOR 1973 ARE AVAILABLE FOR THE MAJOR COMMODITY GROUPS AND TRANSPORT AGENCIES. IT WOULD BE FEASIBLE TO BEGIN THIS STUDY WITH AN ANALYSIS OF GRAIN TRAFFIC ON THE RAILROADS.

FOR BOTH OF THESE PROJECTS WE WOULD SUGGEST THE FOLLOWING FORMAT FOR CARRYING OUT THE WORK.

A TWO-YEAR STUDY IS PROPOSED FOR EACH PROJECT. A STUDY TEAM OF FOUR SCIENTISTS, TWO FROM EACH COUNTRY, WOULD BE ESTABLISHED FOR EACH PROJECT. BACKGROUND MATERIALS ON THE RELEVANT MODELS AND STATISTICAL EVIDENCE WILL BE EXCHANGED IN MID-MAY 1977. THE STUDY TEAMS WOULD MEET IN THE

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U.S.S.R. IN JUNE-JULY 1977 FOR A PERIOD OF THREE-FOUR WEEKS TO DISCUSS THE SPECIFIC RESEARCH PLAN AND TO MAKE FIELD TRIPS TO RELEVANT INSTALLATIONS AND ORGANIZATIONS. THE STUDY TEAMS WOULD MEET IN THE U.S. DURING SEPTEMBER-OCTOBER 1977 FOR A PERIOD OF THREE-FOUR WEEKS FOR DISCUSSION OF THE PROJECT ACTIVITIES AND FOR APPROPRIATE FIELD TRIPS TO U.S. INSTALLATIONS AND ORGANIZATIONS.

A REPORT WOULD BE PREPARED BY THE END OF 1977 ON THE

PROGRESS OF THE JOINT WORK IN EACH PROJECT. A SMALL INVITATIONAL SEMINAR ON THE MAIN ASPECTS OF RESEARCH IN EACH PROJECT WOULD BE HELD IN THE U.S. IN SPRING 1978.

THE PROGRAM FOR THE SECOND YEAR FOR EACH PROJECT WOULD CONSIST OF TWO PROJECT MEETINGS (ONE IN EACH COUNTRY), THE PREPARATION OF A FINAL REPORT, AND A SEMINAR ON THE RESEARCH TO BE HELD IN THE U.S.S.R.

THESE PROPOSALS ARE PRELIMINARY, OF COURSE, BUT WE LOOK FORWARD TO YOUR COMMENTS AND TO RECEIVING ALTERNATIVE PROPOSALS THAT YOU MAY HAVE.

WITHEST REGARDS.

SINCERELY,  
H. J. MCMAINS  
U.S. COORDINATOR, TOPIC 2

CC: D. D. AUFENKAMP  
B. I. RAMEYEV  
MR. ZARODOV

KISSINGER

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## Message Attributes

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**Current Classification:** UNCLASSIFIED  
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**To:** MOSCOW  
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